

An Investigation of the Rotor Temperature of
a GT-600-1.5 Gas Turbine Under Operating
Conditions, by M. M. Ivashchenko, 12 pp.

RUSSIAN, per, Enorgomashinostroyeniye, No 2,
1961, pp 17-21. 9677209

FID-TT-61-411

Sci. - Engr

18 Jun 62

201,163

Investigation of Double Row Curtis Stages With
Partial Admission of Steam, by M. Ye. Deich,
et al.

RUSSIAN, per, Energomash, Vol VII, No 3, 1961,
pp 24-27.

MLL M. 3551

Sci - Engr
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Stanyukovich, A. V. and Levin, E. E.
CAUSES OF FAILURE OF STEAM SUPERHEATER
PIPES MADE FROM 18Cr/12Ni/1Ti STEEL
Z. Jazdzewski, tr. 1963 [10p] 2refs TRG Information
Series 191 (R).
Order from OTS, SL, or ETC \$1.10 TT-64-13805
Trans. of ~~Stanyukovich~~ ~~Levin~~ (USSR) 1961 [v. 7]
no. 10, p. 27-30.

NLL/9091.9 1963 TRG IS 191

Metallurg--Structural, TT, v. 12, no. 2

TT-64-13805

- I. Stanyukovich, A. V.
- II. Levin, E. E.
- III. TRG-IS-191 (R)
- IV. United Kingdom Atomic
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(NY-3000/2)

Profile-Grinding Machines for Machining Turbine
Blades of Varying Profile, by V. A. Dolgov, M. L.
Bakhter, A. V. Tsvetkov, 5 pp.

RUSSIAN, per, Energo-Mash, No 3, 1961, pp 32-34.

JPRS 9523

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Aug 61

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Increasing the Erosion Strength of Steel for
Steam-Turbine Blades by Spark-Hardening, by
M. G. Timerbulatov, V. P. Savukov.

RUSSIAN, per, Energomash, Vol VII, Apr 1961,
pp 32-34, 40.

NLC ALBERT
RUSI 2316

Sci - Min/Metals

168,477

Sep 61

List 108

Basic Trends in Piston Construction for Heavy
Engines High Speed Diesels, by S. N. Doroshenko,
V. N. Kotlyarov.

RUSSIAN, per, Enginemas, Vol VII, No 4, 1961,
p. 22-23.

NLL M. 3576

301 - Engin

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The PVK-150 Steam Turbine Produced by the
Khm Khar'kov Turbo-Generator Factory, by
L. A. Shubenko-Shubin, A. V. Lazarenko.

RUSSIAN, per, Energomashinoostroenie, Vol VII,
No 6, 1961, pp 1-7.

ILL Ref. 9022.03 1963 (3,295)
(Loan)

Sci - Engr
Nov 63

2 FSTZ TT 63-28933

Gas Turbine Installation GT-700-5, by
I. A. Kuznetsov.

RUSSIAN, per, Energomash, Vol VII, No 6, 1961,
pp 1-6.

MLL M. 3542

Sci - Engr
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The PWK-150 Steam Turbine Produced by the
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L. A. Shubenko-Shubin, A. V. Lazarenko.

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The Characteristics of Turbine Stages With Different
Deflection Angles of the Guide Blades, by
I. I. Kirillov, R. M. Yablonik.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
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NLL Ref: 9022.03 1963 (3296) (Loan)

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Testing Methods for Sintered Products, 2 pp.

RUSSIAN, per, Energomash, No 6, 1961, pp 42-44.

CIA/FDD XX-1037

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Sci - Engr.

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USIE INTERNAL USE ONLY

The Influence of a Convergent Transition Piece
Downstream of a Flat-Walled Butterfly Valve on the
Valve Characteristic, by B. I. Yashin.

RUSSIAN, per, Energomashinostroenie, Vol. VII, No. 7,
1962, pp. 10-19.

MLL M 933 3992

Sci - Eng
App: 6.3

224907

Effect of the Moisture Content of Steam on the
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Kachuriner, I. P. Paddishev.

RUSSIAN, per, Energomash, Vol VII, No 8, 1961,
pp 5-8.

MLA M. 3536

Sci - Engr
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THE EFFECT OF THERMOPHORESIS ON THE PROCESS OF PRE-
CIPITATION OF ASH PARTICLES ON COOLED BLADES OF GAS
TURBINES, BY S. SH. ROZENBERG, 14 PP.

RUSSIAN, PER, ENERGO MASHINOSTROYENIYE, NO 8, 1961,
PP 42-45. 9678391

FTD-TT-62-1025

SCI - EIGR
L1 OCT 62

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(SP-1878)

Specialized Conference on Diesel
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RUSSIAN, per, Energomashinostroyeniye,
No 8, 1961, p 47.

JPRS 13033

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Sci - Misc
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(N SF-1877)

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RUSSIAN, per, Energo-Mashinostroyeniye,
No 10, 1961, pp 1-4.

JPRS 13533

191,666

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Investigation of Air-Stream Cooling of Gas Turbine
Disk, by L. A. Dordman, Yu. B. Gubarov, 13 pp.

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1961, pp 23-26. 9675270

FTD-47-62-1023

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Causes of Failure of Steam Super-heater
Pipes Made From 18Cr/12Ni/1Ti Steel,
by M. V. Stanyukovich.
RUSSIAN, per, Energomashinostroenie,
No 10, 1961, pp 27-30.
NLI/0091.9 1962 URGIS 191

Sci -
Jul 67

334,311

Tsukerman, R. V. and Nazarenko, S. S.
COST INDICES IN THE MANUFACTURE OF LARGE
STEAM BOILERS. [1963] [10p] 2 refs C.E.

Trans. 2734.

Order from CTS or SLA \$1.10

63-23974

Trans. of Energiy Mashinostroeni (USSR) 1961 [v. 7]
no. 10, p. 33-36.

DESCRIPTORS: Boilers, Steam, Costs,

Two statistical methods are described for calculating the manufacturing costs of projected boilers. One method is based on the functional relation between cost price and the materials component. This method requires a drawing or technical project which permits an approximate calculation of the material required from which the theoretical cost price can be calculated. The second method is based on determining the relation between manufacturing costs and the power and steam (Engineering-Mechanical, TT, v. 10, no. 12) (over)

63-23974

I. Tsukerman, R. V.

II. Nazarenko, S. S.

III. CE Trans-2734

IV. Central Electricity
Generating Board
(Gr. Brit.)

NLC (LORAN) REF:

9022.09146 (2.734)

Office of Technical Services

Experimental High-Temperature Gas Turbines OGT-850
of the Central Scientific Research Institute
for Boilers and Turbines, by I. N. Yefimov, 1. pp. 48

RUSSIAN, per, Izergomashimontropeniya, No 10,
1961, pp 48, 9679270

48

FTD-FF-62-1023

Sol-Eng
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Calculating the Diaphragm as a Half-Ring on
an Elastic Supporting Contour, by
V. L. Ingul'tsov.

RUSSIAN, per, Engg. Controlye, Vol VII,
No 11, 1961, pp 1-5.

REF ID: A622 03 1961 (3297) (Loan)

Sci. Engr.
Feb 64

248,590

Alzentshtat, I. I.
DYNAMIC PROPERTIES OF THE FEED CONTROL
SYSTEM OF ONCE-THROUGH BOILERS WITH RE-
SPECT TO THE "HEAT-WATER" CYCLE. [1961]
[12p] Izv. C. E. Trans. 2610.
Order from OTS or SLA \$1.60

63-24078

Trans. of Energiy Mashinostroyeniye (USSR) 1961, v. 7,
no. 11, p. 5-9.

DESCRIPTORS: *Boilers, *Feed water, Control
systems, Pressure, Steam, Damping, Dynamics.

Factors are considered which determine the stability
of the feed control system of a once-through boiler with
respect to the "heat-water" ratio. A method of increas-
ing the damping of the system is developed based on
introducing an additional impulse into the feed regulator
to denote the temperature of the medium at one or more
points in the steam delivery line preceding the first
desuperheater. (Author)

63-24078

- I. Alzentshtat, I. I.
- II. CE Trans-2610
- III. Central Electricity
Generating Board
(Gt. Brit.)

(Engineering--Mechanical, TT,
v. 10, no. 12)

Office of Technical Services

Technical Projects for New Turbines to be
Produced by the Khar'kov Turbo-generator
Plant, by B. M. Panshin.

RUSSIAN, per, Energomashinostroenie, Vol VII,
No 11, 1961, p. 24.

NLI Ref: 0022.03 1963 (3298) (Loan)

Sel - Engr
Feb 64

248,591

The Effect of Non-Metallic Inclusions on the
Strength of Turbine Discs., by P. N. Petrov.

RUSSIAN, per, Energiyashin, Vol VII, No 11,
1961, pp 27-30.

MLL N 8890

Sci - Eng
Feb 63

223,567

63-24080

Bubentsov, A. M. and Polukanin, P. N.
FRICTIONAL POWER LOSSES AND OIL CONSUMPTION IN THE THRUST BEARINGS OF TURBINES.

[1963] [15p] 10 refs C. E. Trans. 2699.

Order from OTS or SLA \$1.60

63-24080

Trans. of Energomashinostroenie (USSR) 1961, v. 7, no. 11, p. 34-38.

DESCRIPTORS: Turbines, *Thrust bearings, Friction, Power, Lubrication, Lubricants.

Factors affecting frictional power losses and oil consumption in two-sided thrust bearings of turbines are considered. The comparative quantitative characteristics obtained by calculation and by various methods for five typical thrust bearings of different dimensions, operating over a wide speed range and at two mean pressure values are quoted. An evaluation of different methods for the calculation of power losses and oil consumption in thrust bearings is given. (Author)

- I. Bubentsov, A. M.
- II. Polukanin, P. N.
- III. CE Trans-2699
- IV. Central Electricity
Generating Board
(Gt. Brit.)

(Machinery--Machine Parts, TT, v. 10, no. 12)

Office of Technical Services

The Effect on Efficiency of the Shape of the
Low-Pressure Bladed Section in a Steam Turbine,
by I. I. Kirillov.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 12, 1961, pp 1-5.

NLL Ref: 9022.03 1963 (3303) (Loan)

Sci
Feb 64

Calculation of a Transverse Cross Section by a
Method of ~~the~~ Characteristics, by G. A. Sokolovskiy
12 pp.

RUSSIAN, per. *Energomashinostroyeniye*, No 12, 1961,
pp 22-24. 9681645

FTD-TT-62-1739

Sci-Engr
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Towards Defining a Rational Design for the
Flanged Joints in Steam Turbines, by I. Z.
Kopp.

RUSSIAN, per, Energomash, Vol VII, No 15, 1961,
pp 25-26.

NLL M 3917

Sci - Engr
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Stress Concentration in the T-Shaped Tail Connection
of Moving Turbine Blades, by Ch. G. Mustafin.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 12, 1961, pp 46-⁴67.

NEL Ref: 9022.03 1963 (3306) (Loan)

Sci
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Some of the New Work Accomplished by the Khar'kov
Turbogenerator Plant, by M. I. Repkin.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 12, 1961, p 48.

NLI Ref: 9022.03 1963 (3307) (Loan)

Sci
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The Effect of the Height of the Blades on Some
of the Characteristics of Single-Row Turbine
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RUSSIAN, per, Energomashinostroyeniye, Vol VIII,
No 1, 1962, pp 6-9.

NIL Ref: 9022.03 1963 (3308) (Loan)

Sci
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The Calculation of Strength of Flange Joints in
Cylinders of Turbines, by P. I. Anson.

RUSSIAN, per, Energomash, Vol VIII, No 1, 1962,
pp 24-29.

NIL M 82 3893

Sol - Engr
Mar 63

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Pearlitic Steel EP 44 (TsZh 10) Relaxation-
Resistant at 565-600°C, by T. I. Volkova,
Z. M. Petrovskaya.

RUSSIAN, per, Energomashinostroenie, No 1, 1962,
pp 33-35.

ISI 3005

223 637

Sci. - M/M
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The Efficiency of a Cross-Ribbed Curvilinear
Diffuser, by V. K. Mignay, Candidate of Technic
Sciences, 85 pp.

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FTD-TT-62-1151

ALL Pcs. 902203 (100) (1000)

Sci-Phys, Aero
Dec 62

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Peculiarities of Machining Herringbone Surfaces on
Turning Lathes, by A. V. Belov.

RUSSIAN, per, Energomash, No 2, 1962, pp 30⁰.

U.K. Atomic Energy Authority
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Sci - Engr
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The Influence of the Products of Combustion of
Sulfur-Containing Fuel Distillates on the Con-
struction Materials of Gas Turbines, by
B. V. Losikov, A. D. Fat'yanov, et al., 13 pp. 33

RUSSIAN, per, Energomashinostroyeniye, No 2, 1962,
pp 34-37. 9679787

FTD-TT-62-1026

Sci-Engr
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The Concentration of Stresses During Expansion
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Deformation, by A. N. Grubin.

RUSSIAN, per, Inguzhinskoye, Vol. VIII,
No. 3, 1968, pp 18-21.

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Sol - Ingr
May 69

229,353

The Technical and Economic Factors Involved in
the Manufacture of Steam Turbines, by R. V.
Trukeman.

RUSSIAN, per, Energomashinostroyeniye,
Vol. VIII, No 6, 1962, pp 22-25.

NLL Ref: 9022.03 1963 (3357)
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Sci
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Investigating the Last Stages of Condensing Steam
Turbines, by B. M. Troyanovskiy, F. V. Kazintsev.

RUSSIAN, per, Energomashinostroyeniye, Vol VIII,
No 3, 1962, pp 26-29.

NIL Ref: 9022.03 1963 (3310) (Loan)

Sci
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Shubenko-Shubin, L. A., Sobolev, S. P., and
Poznakhirov, V. P.

THE DESIGN OF MOVING BLADES FOR THE LAST
STAGES OF HIGH-CAPACITY STEAM TURBINES.

[1963] [18p] 2 refs C. E. Trans. 2708.

Order from OTS, SLA, or ETC \$1.60 TT-63-23984

Trans. of Energiy Mashinostroenie (USSR) 1962 (v. 8)
no. 4, p. 5-10. (Abstract available)

DESCRIPTORS: *Steam turbine blades, Design,
Mechanical properties.

Details are given of present-day achievements in the
field of the design of the rotor blades of the last stages
of large turbines. Descriptions are given of the
methods used for strength calculation of the active zone
of the blades, measures to reduce the total stresses in
this zone, and some results of actual calculations.

(Author)
Machinery, Fabrications and Accessory Equipment,
TT. V. 11, no. 2

TT-63-23984

- I. Shubenko-Shubin, L. A.
- II. Sobolev, S. P.
- III. Poznakhirov, V. P.
- IV. CE Trans-2708
- V. Central Electricity
Generating Board
(Gt. Brit.)

NLL (LOAN) REF:
9622.09 1963 (2,708)

Office of Technical Services

Some Problems in Strain-Gauge Measurements on
the Moving Blades of Turbo-Machines, by K. V.
Prolov.

RUSSIAN, per, Energi mashinostroyeniye, Vol VIII,
No 4, 1962, pp 35-37.

REL N 8979

Sci - Eng
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Thermophysical Characteristics of Ordinary
and Heavy Water, by P. A. Andrayev, et al.

RUSSIAN, per, Energomashinostroenie,
No 4, 1962, pp 46-48.

U.K.A.E.A.
Rislev, Tr 271

Sci. Geophys
pp 62

210,904

The Effect of Lacing Wires on the Efficiency of
a Turbine Stage, by I. I. Kirillov, R. V. Kuz'michev

RUSSIAN, per, ~~Enertomashinostrroyeniye~~, Vol VIII,
No 5, 1962, pp 1-4.

NLL Ref: 9022.03 1963 (3355)
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Calculation of Stress Distribution in the Body of
Spherical Valves for High Head Hydroelectric
Station, by A. U. Bogov.

RUSSIAN, per. ~~Energomashinostroyeniya~~, No 5, 1962,
pp 17-20.

CRSXI TF 67-59020

Sol-Phys
Feb 69

372.873

A Heat Resistant Cast Chrome Steel, as a Material for
the Components of Power Installations With an Operating
Temperature of Up to 600° C, by E. E. Levin, E. N.
Masaleva.

RUSSIAN, per, Energomash, Vol. VIII, May 1962,
pp 24-27.

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*BISI 3002

Sci - Min/Metals

sup no 135

24 Aug 62

NLL R#5: 5528.4 1964 (14,542)
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THE KHTOZ STEAM TURBINE OF THE SKR-100 TYPE WITH
COOLING FOR THE SUPERCRITICAL STEAM PARAMETERS,
BY L. A. SHUBENKO-SHUBIN, S. I. OSTROVSKIY, 21 PP.

RUSSIAN, PER, ENERGO-MASHINOSTROYENIYE, NO 6,
1962, PP 4-10.

JPRS 15608

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OCT 62

213,458

Fuel Additives, an Effective Means for Increasing
the Motor Power of Power Installations, by
G. P. Borkin, 411 pp.

RUSSIAN, per, Energiomash, No 6, 1962, pp 26-28
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FTD-TT-62-2951

Sci. Phys.
Apr 63

32/066

Ventilation Losses in a Turbine Stage, by
A. D. Makhovitskiy, 15 pp.

RUSSEAN, per, Energiya, No 3, 1962, pp 29-32.
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FTD-TT-62-1740

Sci-Engr
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(except where noted)

(DC-1830)

AN INDUSTRYWIDE CONFERENCE ON POWER MACHINE
BUILDING, BY V. G. TYRYSHKIN, L. I. PONARSKIY,
6 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 6,
1962, P 41.

JPRS 14755

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RADICAL-AXLE HYDRAULIC TURBINE OF A 230,000 KW
CAPACITY FOR THE BRATSKAYA GES, BY A. F. VOLKOV,
7 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 7, 1962,
PP 1-4.

JPRS 16265

SCI - ELECTRONICS

NOV 62

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Damping the Vibrations of Heavy Rotors, by S. I.
Sergeev, 9 pp.
RUSSIAN, per, ~~Engineering~~ Engineering, No 7,
July 1962, pp 16-18.
JPRS 2000

Sci-Eng
Mar 65

276,117

Internal Heat Insulation of the Casing of Gas
Turbines Type OT-700-5, by L. A. Kuznetsov,
B. F. Mironov, 12 pp.

RUSSIAN, per, Energomashinostroyeniye, No 7,
1962, PP 23-25.

CIA/FDD XX-1410
No Foreign Dissem

Sci - Engr

Sept 63

USIS Internal Use Only

344,145

TT-63-23964

Karyagin, N. P.
ECONOMIC TEMPERATURE OF BOILER FLUE
GASES. [1963] [1 p] Gost C. E. Trans. 2804.
Order from OTS, SLA, or ETC \$1.60 TT-63-23964

Trans. of Energiy Mashinostroeni (USSR) 1962, v. 8,
no. 7, p. 28-32. (Abstract available)

DESCRIPTORS: *Boilers, *Exhaust gases, Tempera-
ture, Heat exchangers, Economics, Steam power
plants, Mathematical analysis.

A method of determining the most economical boiler
flue gas temperature is described. The general case
of the use of a surface heat exchanger capable of
operating under conditions of the condensation of steam
from the flue gases is included. (Author)

(Engineering--Mechanical, TT, v. 11, no. 2)

I. Karyagin, N. P.
II. CE Trans-2804
III. Central Electricity
Generating Board
(Gt. Brit.)

NEL(LOAN)KPT:
9022.09 1963/2 204)

Office of Technical Services

TWENTIETH ANNIVERSARY OF THE BARNAUL BOILER PLANT,
BY N. V. PAVLOV, 4 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYA, NO 7,
1962, P 38.

JPRS 15690

USSR
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SCI-ENGR
OCT 62

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CONFERENCE ON THE PROBLEMS OF DEVELOPMENT,
UTILIZATION AND RESEARCH OF MATERIALS FOR UNITS
WITH CAPACITIES OF 300, 500 AND 8800 THOUSAND
KILOWATTS, BY YE. YE. LEVIN, YE. N. MASALEVO,
3 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYA, NO 7, 1962,
PP 39-40.

JPRS 15690

USSR
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OCT 62

215,047

PK-39 BOILER UNIT WITH A 950 - TON STEAM
GENERATING CAPACITY, BY YU. I. OKERBLOM, 9 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 8,
AUG 1962, PP 1-5.

JPRS 16326

SCI - ENGR

JAN 63

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The Aerodynamic Influence of Lacing Wires on
the Operation of the Blading in Axial Compressors,
by G. A. Khamin.

RUSSIAN, per, ~~Energomashinostroyeniye~~, Vol VIII,
No 8, 1962, pp 16-18.

NLL Ref: 9022.03 1964 (3370)
(loan: copy)

Sci
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The Influence of Low Overlap on Turbine
Stage Efficiency, by A. G. Sheinkman.

RUSSIAN, per, ~~Energomashinostroyeniye~~,
Vol VIII, No 8, 1962, pp 28-29.

NLL Ref: 9022.03 1964 (3371)
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Sci
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Damage to Steam Turbine Rotors,
by I. M. Stepanov.
RUSSIAN, per, Energomashin, 1962,
Vol. VIII, No VIII, pp 31-32.
NLL 9022,03 1964 (3372) (On Loan)

USSR
Sci-F&P
July 65

284,610

GAS TURBINES FOR LARGE-SCALE POWER PRODUCTION
AND THE MAJOR SCIENTIFIC AND TECHNICAL PROBLEMS
OF THEIR DEVELOPMENT, BY M. I. KORNEYEV, ~~XXX~~
D. V. LITVINOV, ET AL, 16 PP.

RUSSIAN, PER, ENERGO MASHINOSTROYENIE, NO 9,
1962, PP 1-5.

JPRS 16634

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210,264

TURBO - COMPRESSORS FOR PRESSURE CHARGING
DIESEL ENGINES, BY M. M. KOVALEVSKIY, YA. M.
GUSAK, ET AL, 9 PP.

RUSSIAN, PER, ENERGO Mashinostroyeniye, NO 9,
1962, PP 35-37.

JPRS 16634

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SCI - ENGR
DEC 62

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The Influence of Supercooling and the Structure of
Moist Steam on its Discharge Through Nozzles,
by I. I. Kirillov, R. M. Yablouik.

RUSSIAN, per, Energiya, Vol VIII, No 10, 1962,
pp 6-10.

MLL Ref: 5828.4 1962 (5,229) (loan)

Sci - Phys
Jul 63

236,102

Condensation of Steam from a Steam-Air
Mixture Inside Vertical Channels, by
V. A. Rachko.

RUSSIAN, per, Energomashinostroeniye,
1962, Vol 8, No 11, pp 24-28.

MLL RTS 2588 (On Loan or Purchase)

Aug 65

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Study of the Operation of a Centrifugal
Compressor Wheel, by S. A. Anisimov, 19 pp.

RUSSIAN, per, Energomashinostroyeniye, No 221,
1962, pp 5-16. 9681624

FTD-TT-62-1816

Sci-Engr
May 63

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The Influence of the Number of Vanes on the
Efficiency of the Centrifugal Wheel with a
Single-Stage Cascade, by S. A. Anisimov,
24 pp.

RUSSIAN, per, Energiyashinostroyeniye, No 221,
1962, pp 17-31. 9681624

FTD-TT-62-1816

Sci-Engt
May 63

229,547

Study of the Efficiency of Centrifugal Compressor
Wheels with a Two-Stage Van. Cascade, by
M. I. Kalinina, 25 pp.

RUSSIAN, per, Energomashinstroyeniye, No 221,
1962, pp 32-46. ~~9681624~~

FTD-TT-62-1816

Sci-Engr
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